



Fig.1

| | |
|---|------|
| 1 (BglI) | |
| CCGGGCGCAAACGGCGGACGCTGCTGTTAGCCCCGCTTGAAACAATGC | 47 |
| -35 -10 | |
| CGTCTGAACGCCACTTCAGACGGCATTTTTATAATAAGGCGCTGTCCTAGATAACTAGGG | 107 |
| S.D. | |
| AAATTCAANTTAAGTTAGAATTATCCCTATGAGAAAAAGCCGTCTAAGCCGGTATAAACA | 167 |
| M R K S R L S R Y K Q | |
| AAATAAACICATTGAACTGTTTGTGCGCAGGCGTAAGTCAAGAACAGCAGCAGAGCCCTGA | 227 |
| N K L I E L F V A G V T A R T A A E P D | |
| CAGCATTGTTTATACGGATTGTTATCGTCGCTATGATGTATTGGATGCGGGCGAATTTAG | 287 |
| S I V Y T D C Y R R Y D V L D A G E F S | |
| CCATTTCCGTATCAATCACAGCACACATTTTGCCGAACGACAAAACCATATTAATGGAAT | 347 |
| H F R I N H S T H F A E R Q N H I N G I | |
| TGGGAACTTTTGGAACCGGGCAAAACGTCATTTACGCAAGTTTGACGGCATTCCCAAAGA | 407 |
| G N F W N R A K R H L R K F D G I P K E | |
| GCATTTTGAGCCGTATTTAAAGGAGTGCGAACGGCGTTTTTAACAACAGTGAGATAAAAG | 467 |
| H F E P Y L K E C E R R F * | |
| -35 | |
| TTCTGTTCATTTTTAAAACAATTAGTAAATCGAGTTTATCCTAGTGTGTCAGGACGGC | 527 |
| -10 S.D. | |
| CCCTAATTTATTTACAATTTTGATACAATTGTTTTTCATCAAAGGAGAAAATCTATGCG | 587 |
| M R | |
| GGCACGGCTGCTGATACCTATTCTTTTTTCGGTTTTTATTTTATCCGCCCTGCGGGACACT | 647 |
| A R L L I P I L F S V F I L S A C G T L | |
| GACAGGTATTCCATCGCATGGCGGAGGCAAACGCTTCGCGGTGGAACAAGAACTTGTGGC | 707 |
| T G I P S H G G G K R F A V E Q E L V A | |
| CGCTTCTGCCAGAGCTGCCGTTAAAGACATGGATTTACAGGCATTACACGGACGAAAAGT | 767 |
| A S A R A A V K D M D L Q A L H G R K V | |
| TGCATTGTACATTGCAACTATGGGCGACCAAGGTTGAGGCAGTTTGACAGGGGGTTCGCTA | 827 |
| A L Y I A T M G D Q G S G S L T G G R Y | |
| CTCCATTGATGCACGTATTCGCGGCGAATACATAAACAGCCCTGCGGTCCGCACCGATTA | 887 |
| S I D A L I R G E Y I N S P A V R T D Y | |
| CACCTATCCGCGTTACGAAACCACCGCTGAAACAACATCAGGCGGTTTGACGGGTTTAAAC | 947 |
| T Y P R Y E T T A E T T S G G L T G L T | |
| CACTTCTTTATCTACACTTAATGCCCCTGCACTCTCGCGCACCCAATCAGACGGTAGCGG | 1007 |
| T S L S T L N A P A L S R T Q S D G S G | |

Fig.2A

AAGTAGGAGCAGTCTGGGCTTAAATATTGGCCGGATGGGGGATTATCGAAATGAAACCTT 1067
 S R S S L G L N I G G M G D Y R N E T L
 GACCACCAACCCGCGGCACACTGGCCTTTCTTTCCCACTTGGTACAGACCGTATTTTTCCT 1127
 T T N P R D T A F L S H L V Q T V F F L
 GCGCGGCATAGACGTGTGTTTCTCTCCGCAATGCCGATACAGATGTGTTTATTAACATCGA 1187
 R G I D V V S P A N A D T D V F I N I D
 CGTATTCCGAACGATACGCAACAGAACCGAATGCACCTATACAATGCCGAAACACTGAA 1247
 V F G T I R N R T E M H L Y N A E T L K
 AGCCCAAACAAAACCTGGAATATTTGCGAGTAGACAGAACCAATAAAAAATTGCTCATCAA 1307
 A Q T K L E Y F A V D R T N K K L L I K
 ACCCAAACCAATGCGTTTGAAGCTGCCTATAAAGAAAAATTACGCATTGTGGATGGGGCC 1367
 P K T N A F E A A Y K E N Y A L W M G P
 GTATAAAGTAAGCAAAGGAATCAAACCGACGGAAGGATTAATGGTTCGATTCTCCGATAT 1427
 Y K V S K G I K P T E G L M V D F S D I
 CCGGCCATACGCAATCATACGGGTAACTCCGCCCATCCGTAGAGGCTGATAACAGTCA 1487
 R P Y G N H T G N S A P S V E A D N S H
 TGAGGGGTATGGATACAGCGATGAAGCAGTGGGACAACATAGACAAGGGCAACCTTGATT 1547
 E G Y G Y S D E A V R Q H R Q G Q P *
 S.D.
 CACACTGCCATAACCGCTTGCTGCCAAGGAAAACAAAATGAATTGCTATTCAAAAATT 1607
 M N L P I Q K F
 CATGATGCTGTGTTGCGAGCGGCAATATCGTTGCTGCAAATCCCCATTAGTCATGCGAACGG 1667
 M M L F A A A I S L L Q I P I S H A N G
 TTGATGCCCCGTTTGGCGGATGATATGCAGGCAAAACACTACGAACCGGGTGGCAAATA 1727
 L D A R L R D D M Q A K H Y E P G G K Y
 CCATCTGTTCGGTAATGCTCGCGGCAGTGTAAATAATCGGGTTTGGCGCGTCCAAACATT 1787
 H L F G N A R G S V K N R V C A V Q T F
 TGATGCAACTGCGGTGGGCCCCATACTGCCTATTACACACGAACGGACAGGGTTTGAAGG 1847
 D A T A V G P I L P I T H E R T G F E G
 CATTATCGGTTATGAAACCCATTTTTCAGGACACGGACACGAAGTACACAGTCCGTTTGA 1907
 I I G Y E T H F S G H G H E V H S P F D
 TAATCATGATTCAAAAAGCACTTCTGATTTTTCAGCGGGGGGTAGACGGCGGTTTACCGT 1967
 N H D S K S T S D F S G G V D G G F T V
 TTACCAACTTCATCGGACAGGGTGGGAAATACATCCCGCAGACGGATATGACGGGCCCTCA 2027
 Y Q L H R T G S E I H P A D G Y D G P Q
 AGGCGGCGGTTATCCGGAACCAACAAGGGGCAAGGGATATATACAGCTACCATATCAAAGG 2087
 G G G Y P E P Q G A R D I Y S Y H I K G
 AACTTCAACCAAAACAAAGATAAACACTGTTCCGCAAGCCCCCTTTTTCAGACCGCTGGCT 2147
 T S T K T K I N T V P Q A P F S D R W L

AAAAGAAAAATGCCGGTGCCGCTTCGGTTTTCTCAGCCGTGCCGATGAAGCAGGAAAAC 2207
 K E N A G A A S G F L S R A D E A G K L
 GATATGGGAAAACGACCCCGATAAAAATTGGCGGGCTAACCGTATGGATGATATTCGCGG 2267
 I W E N D P D K N W R A N R M D D I R G
 CATCGTCCAAGGTGCGGTTAATCCTTTTTTAACGGTTTTTCAGGGATTGGGAGTTGGGGC 2327
 I V Q G A V N P F L T G F Q G L G V G A
 AATTACAGACAGTGGGTAAGCCCGGTAACCTATGCGGCAGCACGGAAAACTTTACAGGG 2387
 I T D S A V S P V T Y A A A R K T L Q G
 TATTACAAATTTAGGAAATTTAAGTCCGGAAGCACAACCTTGCCCGCCGAGCCTATTACA 2447
 I H N L G N L S P E A Q L A A A S L L Q
 GGACAGTGCCTTTGCGGTAAAAGACGGCATCAATTCGCCCAGACAATGGGCTGATGCCCA 2507
 D S A F A V K D G I N S A R Q W A D A H
 PstI
 TCCGAATATAACAGCAACAGCCCAAACCTGCCCTTGCCGTAGCAGAGGCTGCAGGTACGGT 2567
 P N I T A T A Q T A L A V A E A A G T V
 TTGGGGAGGTAAAAAAGTAGAACTTAACCCGACCAAATGGGATTGGGTTAAAAATACCGG 2627
 W G G K K V E L N P T K W D W V K N T G
 CTATGAAAAACCTGCTGCCCCGACCTATGCAGACTGTAGACGGGGAAATGGCCGGGAAAAA 2687
 Y E K P A A R P M Q T V D G E M A G K N
 TAAGCCACCGAAACCAAGTACGCAGCAACACTCTACACACTCTGATAACAATATCGGCTT 2747
 K P P K P S T Q Q H S T H S D N N I G L
 ACCTGCCCCATATGTTAAACCTGATACATCTATTCTCCGACAGGAACAATTCAAGACCG 2807
 P A P Y V K P D T S I S P T G T I Q D R
 CATCAGATGGACAAAATCCAAGTTTCCTACTGAGAAATCTTTAAATGGACATTTCAAAGC 2867
 I R W T K S K F P T E K S L N G H F K A
 TCATGGAAAAGAATTTGGCGATATAACCATGGAAGACTACCAAAAAATGGCGTCTGATTT 2927
 H G K E F G D I T I E D Y Q K M A S D L
 GTTATCAAAACAGACATCGGACAAGATATTAGGTTATCAGACGGAACATAGACGAGTGCG 2987
 L S K Q T S D K I L G Y Q T E H R R V R
 CTATGATATCAATAACAATATCTATGTTTGGCCAATCCAAAACATTCAAATCAAAC 3047
 Y D I N N N I Y V L A N P K T F K I K T
 Eco RI
 AATGTTTAAACCAAACCTTAGGAAAGGAGTATTATGATGGAGAAATTCAAAAAGACATGGG 3107
 M F K P N L G K E Y Y D G E F K K D M G
 AAATTGACGGAGAAATATGGCTACATTGTCCGTGTTGCGGAACCTGAAGTTATGGACIATG 3167
 N *
 ATATCTGTGACGTTTGTGTCAGTGGCAAAATACAGGAGAACTAATATAGATGGTGGTCTTA 3227
 HindIII
 ATGAAATGACACTTGCGGAGGCGAAAGAAGCTTACGCAAAAGGCTTACCAATCAGATAAA 3287

Fig.2C